

Weekly report (2017-4-17-----2017-4-23)

April 23rd, 2017, 15:26pm

1. Knowledge:

I learned the knowledge by reading some papers relevant to data visualization. Recently I read some papers about heterogeneous urban data and trajectory theory in visualization field.

Besides that, I discussed with director Xu Meng about my graduation thesis which is relevant with urban data and privacy preserving, however, with the further development of the project, I find that I am more interested in the visualization of urban data and I find this field is more attractive to me. It is worth mentioning that Xu Meng is very nice, she recommended some relevant papers and encouraged me to learn about the project – “relation line”.

2. Skill:

1) For programming skill:

In this week, I read “The Complete Book on AngularJS” from chapter 1 to chapter 5 which is a beginning to me to learn Angular. I think Angular is a good framework that will do a lot of benefits to me. Practice makes perfect, I will continue to practice.

2) For reading skill:

I began to read some papers from TVCG and some others which are relevant to my graduation thesis, I find the speed of reading papers in English is not good, and sometimes it is even hard for me to understand some methodology which is applied in the paper, but I think it is just a beginning, I will keep reading, make notes and try to write a summary of every paper I have read.

3. Research:

I read several papers as follows:

- [1] Wu, Wenchao, et al. "Telcovis: Visual exploration of co-occurrence in urban human mobility based on telco data." IEEE transactions on visualization and computer graphics 22.1 (2016): 935-944.
- [2] Renoust, Benjamin, Guy Melançon, and Tamara Munzner. "Detangler: Visual analytics for multiplex networks." Computer Graphics Forum. Vol. 34. No. 3. 2015.
- [3] Rauber, Paulo E., et al. "Visualizing the Hidden Activity of Artificial Neural Networks." IEEE Transactions on Visualization and Computer Graphics 23.1 (2017): 101-110.
- [4] Schwab, Michail, et al. "booc. io: An Education System with Hierarchical Concept Maps and Dynamic Non-linear Learning Plans." IEEE Transactions on Visualization and Computer Graphics 23.1 (2017): 571-580.

[5] Zheng, Yu, and Xiaofang Zhou, eds. Computing with spatial trajectories. Springer Science & Business Media, 2011.

4. Future plan

This week, I began to read a book which name is “Crafting Your Research Future: A Guide to Successful Master’s and Ph.D. Degree in Science & Engineering”. I was impressed by the author, Ling and Yang summarize the practical aspects of the expectations for the modern graduate students.

After reading this book, I thought a lot about how to pursue a Ph.D. degree, while in the meantime, I also realize that I have a long long road to go and I must make a full preparation about the road I choose.